PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

		or agent's	file reference	FOD FURTUER						
				FOR FURTHER	FURTHER ACTION See Form PCT/IPEA/416					
PCT	International application No. International filing da PCT/US2005/010125 25.03.2005				Priority date (day/mo	onth/year)				
Intern	national	Patent Cl	assification (IPC) or na	ational classification an	d IPC					
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Applic										
SIVII	I HKL	INE BEE	ECHAM CORPOR	ATION et al.	_					
1.	This r	eport is t	he international preli	iminary examination	report, established by ant according to Article	this International Prelim	nary Examining			
ĺ		,		f 5 sheets, including	ant according to Article	36.				
				ANNEXES, compris						
	a. 🛛					ets as follows:				
	 a. Sent to the applicant and to the International Bureau) a total of 1 sheets, as follows: sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). 									
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.									
i	b. (sent to the International Bureau only) a total of (indicate type and number of electronic and purple)									
	sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).									
						,				
4.	This re	eport cont	tains indications rela	ting to the following	itama					
		x No. I			nems.					
_		x No. I x No. II	Basis of the repor	t		•				
-		x No. III	Priority Non-establishmen	at of opinion with we w	would be accountly to the					
	_	x No. IV	l ack of unity of in	vention	gard to novelty, inventive step and industrial applicability					
D	☐ Box No. IV Lack of unity of invention ☐ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
] вох	No. VI	Certain documents		supporting such state	ement				
	☐ Box No. VII Certain defects in the international application									
	☐ Box No. VIII Certain observations on the international application									
Date of	Date of submission of the demand			Date of completion of the	nis report					
12.10.2005										
12.10.	2.10.2005				12.07.2006					
Name a	lame and malling address of the international reliminary examining authority:				Authorized officer					
	_	European	Patent Office				Suppliedhas Patentani.			
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International application No. PCT/US2005/010125

-	Bo	ox No. I Basis of the repo	rt					
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١		With regard to the language, this report is based on						
	\boxtimes	the international applicatio	n in the language in which it was filed					
		of a translation furnished to						
		□ publication of the intern	der Rules 12.3(a) and 23.1(b)) ational application (under Rule 12.4(a)) v examination (under Rules 55.2(a) and/or 55.3(a))					
2	· · · · ·	ve been farmaned to the rece	f the international application, this report is based on (replacement sheets whic eiving Office in response to an invitation under Article 14 are referred to in this re not annexed to this report):					
	Des	scription, Pages						
	1-1:	5	as originally filed					
	Cla	ims, Numbers						
	1-4		as originally filed					
	5		filed with telefax on 12.10.2005					
		a sequence listing and/or ar	ny related table(s) - see Supplemental Box Relating to Sequence Listing					
3.		The amendments have resu	ulted in the cancellation of:					
		☐ the description, pages						
		☐ the claims, Nos.☐ the drawings, sheets/figs						
		☐ the sequence listing (spe	ecify);					
		☐ any table(s) related to se	equence listing (specify):					
ļ.	□ had Sup	This report has been establi not been made, since they hadenental Box (Rule 70.2(c))	shed as if (some of) the amendments annexed to this report and listed below have been considered to go beyond the disclosure as filed, as indicated in the					
		☐ the description, pages						
		☐ the claims, Nos.☐ the drawings, sheets/figs						
		☐ the sequence listing (spe	cify):					
		any table(s) related to se						
	*	If item 4 applies, so	me or all of these sheets may be marked "superseded."					

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International application No. PCT/US2005/010125

_	Вох	(No. II	Priority		· · · · · · · · · · · · · · · · · · ·	····					
1.	 □ This report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time limit the requested: □ copy of the earlier application whose priority has been claimed (Rule 66.7(a)). □ translation of the earlier application whose priority has been claimed (Rule 66.7(b)). 										
2.	This report has been established as if no priority had been claimed due to the fact that the priority claim hat been found invalid (Rule 64.1). Thus for the purposes of this report, the international filing date indicated above is considered to be the relevant date.									ty claim has ndicated	
3.	Add	itional ol	bservations, i	f necessary:							
		No. V licability	Reasoned	statement un ınd explanati	der Artic	le 35(2) with	n regard to	o novelty,	inventive	e step or	industrial
1.		ement	,,		one cupp	orting sacri	statemen	11			
								•			
	Nove	elty (N)		Yes	: Claims	2-5					
				No:	Claims	1					
	_										
	Inver	ntive ste	p (IS)	Yes	: Claims						
				No:	Claims	1-5					
	Indus	strial apr	olicability (IA)	Yes:	Claims	1-5					
				No:		1-5					
				NO:	Claims						
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			explanations	s (mule 70.7):							
	see s	separate	sheet								

Re Item II Priority

The priority $n^{\circ}60/553,391$ is not considered to be rightfully claimed for the following reasons:

The priority document discloses the use of <u>talnetant</u> for the treatment of bipolar disorders. Present independent claims 1 and 5 refer to the use of <u>an NK3 antagonist</u> for the treatment of bipolar disorders.

Hence, at least part of the subject matter defined in the present claims is directed to a broader invention than that described in the cited priority document.

Document D6 (WO2005/014575) published after the claimed priority date but prior to the date of filing of the present application is therefore considered as part of the state of the art.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- The documents cited in the International Search Report are consecutively numbered D1-D6 in the order of their listing. If not indicated otherwise, reference is made to the passages cited in said ISR.
- 2. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

The document D1 discloses the use of the NK3 antagonist osanetant for the treatment of depressive disdorders associated with bipolar disorders. According to document D6 (p.51, right-hand column), manic-depression was the former term used for bipolar disorders, and both bipolar I and II patients have a history of depression. Thus, its is more than doubtful that at least claim 1 is novel over D1.

Document D6 discloses the use of compounds structurally close to talnetant as NK3 antagonists. Some of the diseases mentioned to be treated by the compounds

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includes bipolar manic depression, including type I and II, (p.10).

- 3. The subject-matter of claims 2 and 3 directed to the use of talnetant for the treatment of a bipolar disorder, as well as claims 4 and 5 directed to the treatment of specific manic episodes would appear to be novel, Art. 33(2) PCT.
- 4. In view of D1 and D6, it would be obvious for the skilled man willing to find alternative agents for the treatment of bipolar disorders to try to use other NK3 antagonsist, such as talnetant, with a reasonable expectation of success.

Furthermore, the application does not contain any experimental evidence showing that talnetant is effective in the treatment of any specific bipolar disorder.

Even if an inventive step would be acknowledged for the use of talnetant in the treatment of bipolar disorders, the effect could not be generalized to any NK3 antagonist since there is no evidence for a link between the functionally defined compounds and the condition to be treated.

Therefore, the subject-matter of claims 1-5 does not involve an inventive step in the sense of Article 33(3) PCT.

- 5. The use of an NK3 antagonist in the manufacture of a medicament for the treatment or prevention of a disorder selected from the list:
 - 296.00 Bipolar I Disorder, Single Manic Episode, Unspecified;
 - 296.01 Bipolar I Disorder, Single Manic Episode, Mild;
 - 296.02 Bipolar I Disorder, Single Manic Episode, Moderate;
 - 296.03 Bipolar I Disorder, Single Manic Episode, Severe without Psychotic Features;
 - 296.04 Bipolar I Disorder, Single Manic Episode, Severe with Psychotic Features;
 - 296.05 Bipolar I Disorder, Single Manic Episode, In Partial Remission;
 - 296.06 Bipolar I Disorder, Single Manic Episode, In Full Remission;
 - 296.40 Bipolar I Disorder, Most Recent Episode Hypomanic;
 - 296.40 Bipolar I Disorder, Most Recent Episode Manic, Unspecified;
 - 296.41 Bipolar I Disorder, Most Recent Episode Manic, Mild;
 - 296.42 Bipolar I Disorder, Most Recent Episode Manic, Moderate;
 - 296.43 Bipolar I Disorder, Most Recent Episode Manic, Severe without Psychotic Features;
 - 296.44 Bipolar I Disorder, Most Recent Episode Manic, Severe with Psychotic Features;
 - 296.45 Bipolar I Disorder, Most Recent Episode Manic, In Partial Remission;
 - 296.46 Bipolar I Disorder, Most Recent Episode Manic, In Full Remission;
 - 296.60 Bipolar I Disorder, Most Recent Episode Mixed, Unspecified;
 - 296.61 Bipolar I Disorder, Most Recent Episode Mixed, Mild;
 - 296.62 Bipolar I Disorder, Most Recent Episode Mixed, Moderate;
 - 296.63 Bipolar I Disorder, Most Recent Episode Mixed, Severe without Psychotic Features;
 - 296.64 Bipolar I Disorder, Most Recent Episode Mixed, Severe with Psychotic Features;
 - 296.65 Bipolar I Disorder, Most Recent Episode Mixed, In Partial Remission;
 - 296.66 Bipolar I Disorder, Most Recent Episode Mixed, In Full Remission;
 - 296.80 Bipolar Disorder NOS; and
 - 296.89 Bipolar II Disorder.